



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro

Motherboard X7DB8(2.66GHz, Intel Xeon X5355 processor)

SPECfp2000 = 2589

SPECfp_base2000 = 2586

SPEC license #01176 Tested by: Supermicro Test date: Nov-2006 Hardware Avail: Nov-2006 Software Avail: Mar-2006

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|----------------|----------------|--------------|------------|---------|-------|
| 168.wupwise | 1600 | 46.7 | 3428 | 46.7 | 3428 |
| 171.swim | 3100 | 110 | 2818 | 110 | 2817 |
| 172.mgrid | 1800 | 111 | 1627 | 110 | 1629 |
| 173.applu | 2100 | 109 | 1930 | 109 | 1930 |
| 177.mesa | 1400 | 55.8 | 2511 | 55.8 | 2511 |
| 178.galgel | 2900 | 44.9 | 6465 | 44.9 | 6460 |
| 179.art | 2600 | 28.0 | 9301 | 28.0 | 9301 |
| 183.earthquake | 1300 | 42.7 | 3043 | 41.8 | 3110 |
| 187.facerec | 1900 | 68.6 | 2770 | 68.7 | 2764 |
| 188.ammmp | 2200 | 115 | 1911 | 114 | 1931 |
| 189.lucas | 2000 | 74.6 | 2682 | 74.6 | 2682 |
| 191.fma3d | 2100 | 112 | 1876 | 112 | 1876 |
| 200.sixtrack | 1100 | 103 | 1070 | 104 | 1055 |
| 301.apsi | 2600 | 173 | 1504 | 173 | 1503 |

Hardware

CPU: Intel Xeon X5355 processor (2.66 GHz,1333MHz bus)
CPU MHz: 2660
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1 chip
Parallel: N/A
Primary Cache: 32KBI + 32KBD on chip per core
Secondary Cache: 8MB(I+D) on chip, per chip (4MB shared per 2 cores)
L3 Cache: N/A
Other Cache: N/A
Memory: 8 X 2GB DDR2 ECC CL5 667MHz FBDIMM
Disk Subsystem: 1 X Seagate Barracuda 120GB 7200 RPM
Other Hardware: N/A

Software

Operating System: Windows Server 2003 Enterprise Edition 32-bits w/ SP1
Compiler: Intel C++ and Fortran Compiler 9.1 for 32-bit applications
Build 20060323Z Package ID: W_FC_P_9.1.020
Microsoft Visual Studio 2005(for libraries)
SmartHeap Library Version 8.0 from <http://www.microquill.com/>
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for 177.mesa: -fast +FDO shlw32M.lib
Base tuning for 179.art: -fast +FDO shlw32M.lib
Base tuning for 183.earthquake: -fast +FDO shlw32M.lib
Base tuning for 188.ammmp: -fast +FDO shlw32M.lib
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -fast -Qansi_alias +FDO
171.swim: -fast -Qansi_alias +FDO
172.mgrid: -fast -Qansi_alias +FDO
173.applu: basepeak=yes
177.mesa: basepeak=yes
178.galgel: -fast -Qansi_alias +FDO
179.art: basepeak=yes
183.earthquake: -QxP -Oa -Qrcd -Qipo +FDO shlw32M.lib
```



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro

Motherboard X7DB8(2.66GHz, Intel Xeon X5355 processor)

SPECfp2000 = 2589

SPECfp_base2000 = 2586

SPEC license #01176 | Tested by: Supermicro | Test date: Nov-2006 | Hardware Avail: Nov-2006 | Software Avail: Mar-2006

Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: -fast -Oa +FDO shlw32M.lib
189.lucas: -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi: -fast +FDO
```

Tested systems can be used with SC816S-R700 case,
To ensure system stability, a 500W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]
Product description located as of <http://www.supermicro.com/products/motherboard/Xeon1333/5000P/X7DB8.cfm>
The system bus runs at 1333 MHz
shlw32m-80.lib is the V8.0 SmartHeap library renamed to co-exist with older versions